

Try the new DiamondMax™ Plus 6800 from Maxtor and see the system performance improvement a hard drive can make. Available in capacities up to 27.3 GB, this 7,200 RPM performance leader employs Maxtor's unique Dual Wave™ multi-processor controller for a 10x boost in command speed. Plus a fast 2 MB 100 MHz SDRAM cache buffer and UltraDMA 66 interface to enhance data throughput. Also featured is Maxtor's enhanced ShockBlock™ design, which provides superior protection from damage during shipping and installation. Whether your application is technical, multimedia, or Internet, the DiamondMax Plus 6800 will deliver system performance improvements you can feel.



7,200 RPM

PERFORMANCE HARD DRIVES

27.3 - 6.8 GB

Designed for High-end Desktop and Server Systems

FEATURES:

Fast ATA-4/Enhanced IDE compatible

Digital Signal Processor (DSP)-Based Architecture

> UltraDMA 66 Data Transfer Rate

2 MB SDRAM Cache Buffer

< 9.0 ms Seek Time

No Quibble® Service and Support





Win 100 Hardware DiamondMax 4320 (17.2 GB) Windows Magazine, March 1999



CRN Test Center RecommendedDiamondMax 4320 (17.2 GB)
Computer Reseller News, Fall 1998



1998 World Class Award Best Hard Drive: DiamondMax 2160 (8.4 GB) PC World, July 1998



Editor's Choice Award

DiamondMax Plus 2500 (10.0 GB) DiamondMax 2880 (11.5 GB) Storage Review, Summer 1998

Maxtor's DiamondMax Plus 6800 series delivers outstanding performance including:

•	7,200	RPM	spin	speed
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• 6.8 GB of storage per disk

• < 9.0 ms average seek

• 2 MB cache buffer

 Fast data transfer rates (up to 66 MB/sec)

• 3-year warranty



MODEL	92732U8	92049U6	91366U4	91024U3	90683U2
CAPACITY	27,325 MB	20,493 MB	13,662 MB	10,246 MB	6,831 MB
HEADS	8	6	4	3	2
DISKS	4	3	2	2	1

PERFORMANCE SPECIFICATIONS

Seek Times (typical)	
Track to Track	1 ms
Average	< 9.0 ms
Maximum	< 20 ms
Average Latency	4.18 ms
Rotation Speed (± 0.1%)	7,200 RPM
Controller Overhead	< 0.3 ms
Start Time (0 - drive ready)	7.3 sec typical

DATA TRANSFER MATE				
To/From Interface	up	to	66.7	MB/sec
To/From Media	up	to	33.7	MB/sec

DRIVE CONFIGURATION

Integrated Controller	ATA-4/UDMA 66
Buffer Size	2 MB
Buffer Type	SDRAM
Sectors per Track	266-462
Tracks per Surface (cylinders)	17,549
Data Zones per Surface	16
Bytes per Sector/Block	512

RELIABILITY SPECIFICATIONS

Start/Stop Cycles	50,000 (minimum)
Component Design Life	5 years (minimum)
Data Errors (non-recoverable)	< 1 per 10 ¹⁴ bits read

POWER REQUIREMENTS (TYPICAL)

MODE	12V±10%	5V±8%	Power
Spin-up	2900 mA	400 mA	
Seek	920 mA	470 mA	13.4 W
Read/Write	400 mA	500 mA	< 8 W
ldle	450 mA	360 mA	7.2 W
Standby	20 mA	20 mA	0.9 W

ENVIRONMENTAL LIMITS

Acoustics

Idle mode	3.5 bel (average sound power)		
TEMPERATURE			
Operating	5° C - 55° C		

Non-operating, Storage -40° C - 71° C

RELATIVE HUMIDITY (NON-CONDENSING) Operating, Non-operating, Storage 5% - 95% Maximum Wet Bulb 27° C

ALTITUDE (RELATIVE TO SEA LEVEL)

Operating	-200 - 10,000 feet
Non-operating	-200 - 40,000 feet

VIBRATION**

Operating, random, no errors 10 - 45 Hz at 0.004 G2/Hz 48 - 62 Hz at 0.008 G2/Hz

65 - 300 Hz at 0.004 G2/Hz 301 - 500 Hz at 0.0006 G2/Hz

Non-operating, random 10 - 2,000 Hz at 2.15 Grms, no damage

Operating, swept sine (1 octave per minute)

5 - 20 Hz 0.049" double amplitude 21 - 300 Hz 1.0 G peak amplitude

Ѕноск**

Operating Mechanical Shock 30 Gs, 2 ms, no errors Non-operating Mechanical Shock 250 Gs, 2 ms, no damage

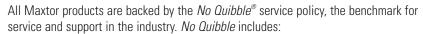
PHYSICAL DIMENSIONS

Height	1.02 in	2.59 cm
Length	5.78 in	14.67 cm
Width	4.00 in	10.20 cm
Weight	1.30 lbs	0.59 kg









- Advance replacement in 2 business days
- MaxFax™ 24-hour automated technical support
- Maxtor's commitment to total customer satisfaction
- Phone technicians available Monday-Friday

For more information or to talk to a customer service representative, call: (U.S. and Canada) 800-2MAXTOR, press 2. Available 6 A.M.—5 P.M. (PT) Mon—Fri; (Europe) +353 1 204 1111. Available 9:30 A.M.—6 P.M. (CET) Mon—Thurs and 9:30 A.M.—5 P.M. (CET) Fri; (Asia/Pacific) 800-481-6788. Available 8 A.M.—5:30 P.M. (GMT+8) Mon—Fri; or visit our homepage on the Internet at http://www.maxtor.com.



^{**}Without non-recoverable errors.